

INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2005/000445

A. CLASSIFICATION OF SUBJECT MATTER		
Int. Cl. ⁷ : G06K 9/32; G06K 7/10; G06T 1/00		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols)		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) DWPI & keywords: Image, Pattern, Test, Align, Pixel, Segment, Distortion, Label, Camera and similar terms		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 08-201913 A (FUJITSU LTD) 9 August 1996 See the whole document	1-7, 9, 20, 21, 24, 25 10-13
Y	US 6 219 155 B1 (ZUBER) 17 April 2001 column 31, line 58 – column 34, line 41	14-17, 22, 26
X	GB 2 203 919 A (SONY CORPORATION) 26 October 1988 See the whole document	10-13
Y	JP 08-095371 A (FUJI XEROX CO LTD) 12 April 1996 See the whole document	1-17, 19-22, 24-26
A		
A		
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C <input checked="" type="checkbox"/> See patent family annex		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 17 May 2005		Date of mailing of the international search report 25 MAY 2005
Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustalia.gov.au Facsimile No. (02) 6285 3929		Authorized officer EVAN SULCS Telephone No : (02) 6283 2442

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

Refer to extra sheet for indication of multiple inventions.

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☒ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

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Supplemental Box

(To be used when the space in any of Boxes I to VIII is not sufficient)

Continuation of Box No: III

The international application does not comply with the requirements of unity of invention because it does not relate to one invention or to a group of inventions so linked as to form a single general inventive concept. In coming to this conclusion the International Searching Authority has found that there are three inventions:

1. Claims 1-13, 19-21, 24 and 25 are directed to a method, an apparatus and a computer readable medium comprising a computer program for measuring performance parameters of an image device/printer wherein a test pattern image is maintained thus comprising alignment features and image analysis features; imaging a test chart in order to form a second image wherein the test chart contains a representation of said test pattern image; registering said test pattern image and said second image using region based matching operating on said alignment features and measuring the performance parameters by analysing said image analysis features. It is considered that the configuration indicated above comprises a first set of "special technical features".
2. Claims 14-17, 22 and 26 are directed to a method, an apparatus and a computer readable medium comprising a computer program for generating a test pattern thus consisting of dividing an image into a predetermined number of areas; dividing each of these areas into smaller areas; assigning properties to at least one of said smaller areas; generating pixel values for said at least one of said smaller areas wherein the pixel values are in accordance with said properties and repeating this procedure from the division of the areas into smaller areas. It is considered that the configuration indicated above comprises a second set of "special technical features".
3. Claims 18, 23 and 27 are directed to a method, an apparatus and a computer readable medium comprising a computer program for analysing images thus comprising receiving first and second images with the second being a distorted version of the first image; labelling the pixels of the first images; determining distortion parameters for aligning the two images together; warping at least said pixel labels using these parameters and associating the pixel labels with the corresponding pixels in the second image wherein the labels provide information on a state of pixels in said second image before distortion. It is considered that the configuration indicated above comprises a third set of "special technical features".

Since the abovementioned groups of claims do not share either of the technical features identified, a "technical relationship" between the inventions, as defined in PCT rule 13.2 does not exist. Accordingly the international application does not relate to one invention or to a single inventive concept.

As the search for the second and third invention did not require more than a negligible additional search effort over that for the first invention, additional search fees were not warranted in this situation.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 636 216 B1 (SILVERBROOK <i>et al</i>) 21 October 2003 See the whole document	18, 19, 23, 27
A	US 6 128 414 A (LIU) 3 October 2000 See the whole document	18, 19, 23, 27
A	US 5 175 808 A (SAYRE) 29 December 1992 See the whole document	18, 19, 23, 27
A	US 5 204 944 A (WOLBERG <i>et al</i>) 20 April 1993 See the whole document	18, 19, 23, 27

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Information on patent family members

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This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report			Patent Family Member		
JP	8201913				
US	6219155	AU	64538/96	CA	2201621
		US	5859711	US	6035103
		US	6606165	US	6633396
		US	6657741	US	6707563
		US	2002089684	US	2004070788
		US	2004125391	US	2005007621
GB	2203919	DE	3813461	FR	2614488
		JP	63269885	US	4835594
JP	8095371				
US	6636216	AU	11391/00	AU	83227/98
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		AU	2002304987	AU	2002304988
		AU	2002304992	AU	2002323712
		AU	2002325636	AU	2002325637
		AU	2002325641	AU	2002328661
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		CA	2456692	CA	2456707
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		CA	2456739	CA	2456778
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US	6264850	US	6267469	US	6267904
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INFORMATION ON PATENT FAMILY MEMBERS

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US	2005063758	US	2005063759	US	2005068371
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WO	03013860	WO	03013861	WO	03013862
WO	03013863	WO	03013864	WO	03013865
WO	03013866	WO	03013869	WO	03015395
WO	03029009	WO	03029012	WO	03067564
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US	6128414				
US	5175808				
US	5204944	WO	9102319		
Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.					
END OF ANNEX					